

WHAT IS CLAIMED IS:

5 1. A tile adapted for attachment to an exterior surface of a substrate that is subject to freeze-thaw cycles, the tile having an outer surface and an inner surface, an array of anchors extending outwardly from the inner surface, the anchors having stretch portions and hook portions adapted to be set in the substrate, the anchors being made of a thermoset plastic material having a coefficient of linear expansion with temperature that is substantially the same as the substrate, whereby when the tile is placed on the exterior surface of the substrate and the anchors are set in the substrate, the anchors will grow and shrink with changes in temperature at substantially the same rate as the substrate to keep the tile in place on the substrate.

15 2. The tile of claim 1 wherein the tile is also made of a thermoset plastic material having a coefficient of linear expansion with temperature that is substantially the same as the substrate, whereby when the tile is placed on the exterior surface of the substrate and the anchors are set in the substrate, the tile will grow and shrink with changes in temperature at substantially the same rate as the substrate to keep the tile in place on the substrate.

20 3. The tile of claim 2 wherein the anchors are integrally attached to the inner surface of the tile.

25 4. The tile of claim 2 wherein the thermoset plastic material has little or no chemical affinity for the substrate whereby when the tile is placed on the exterior surface of the substrate and the anchors are set in the substrate, any excess substrate on the outer surface of the tile may be easily removed therefrom.

30 5. The tile of claim 1 wherein the outer surface of the tile is provided with a desired appearance.

6. The tile of claim 1 wherein the hook portions extend outwardly from the stretch portions of the respective anchors generally parallel to the inner surface of the tile.

5 7. The tile of claim 1 wherein the hook portions extend outwardly from the stretch portions of the respective anchors at an angle greater than 90° from the inner surface of the tile.

10 8. The tile of claim 1 wherein the array of anchors are all similarly oriented in the same direction relative to the tile.

9. The tile of claim 1 wherein the tile is textured and colored to a desired outer surface appearance.

15 10. The tile of claim 1 which is made of the same thermoset plastic material as the anchors, the thermoset plastic material of the tile having a colored filler material added to match the color of an outer surface appearance.

20 11. A tile molded of a thermoset plastic material having an outer surface and an inner surface that is adapted to be secured to an exterior surface of an underlying concrete substrate that is subject to freeze-thaw cycles, the tile having an array of anchors extending outwardly from the inner surface, the anchors having hook portions adapted to engage the substrate and stretch portions extending between the hook portions and the inner surface of the tile,
25 the thermoset plastic material of the tile and anchors having a coefficient of linear expansion with temperature that is substantially the same as the substrate, whereby when the inner surface of the tile is placed on the exterior surface of the substrate and the anchors are set in the substrate, the tile and the anchors will grow and shrink with changes in temperature at substantially the same rate as
30 the substrate to keep the tile in place on the substrate.

12. The tile of claim 11 wherein a plurality of the tiles are adapted to be secured to the exterior surface of the substrate that is exposed to the weather, allowing water to get between the tiles, the stretch portions of the anchors of the respective tiles being stretchable when water gets between the tiles and freezes allowing the tiles to move relative to one another and to the substrate, and when the water between the tiles thaws, the stretch portions have a memory that causes the respective tiles to return to their prior positions on the exterior surface of the substrate.

13. The tile of claim 11 wherein the hook portions extend outwardly from the stretch portions of the respective anchors generally parallel to the inner surface of the tile.

14. The tile of claim 11 wherein the hook portions extend outwardly from the stretch portions of the respective anchors at an angle greater than 90° from the inner surface of the tile.

15. The tile of claim 11 wherein the array of anchors are all similarly oriented relative to the tile.

16. The tile of claim 11 wherein the tile is textured and colored to a desired outer surface appearance.